



COPY OF PAPERS  
ORIGINALLY FILED

#11

## SEQUENCE LISTING

&lt;110&gt; Chen, Fang

<120> DNA MOLECULES ENCODING HUMAN NUCLEAR  
RECEPTOR PROTEINS, nNR-7 AND nNR7-1

&lt;130&gt; 20084YCA

&lt;140&gt; 10/090090

&lt;141&gt; 2002-03-04

&lt;150&gt; PCT/US98/26364

&lt;151&gt; 1998-12-11

&lt;150&gt; 09/209,069

&lt;151&gt; 1998-12-10

&lt;150&gt; 60/104,251

&lt;151&gt; 1998-10-14

&lt;150&gt; 60/069,401

&lt;151&gt; 1997-12-12

&lt;160&gt; 24

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 3093

&lt;212&gt; DNA

&lt;213&gt; Homo sapien (human)

&lt;400&gt; 1

tacgccaaagc	tcgaaattaa	ccctcactaa	agggaaacaaa	agctggagct	ccaccgcggt	60
ggcggccgct	ctagaactag	tggatcccc	gggctgcagg	aattcgaatt	ctcataacct	120
atgactagga	cgggaagagg	aagcactgcc	tttacttcag	tgggaatctc	ggcctcagcc	180
tgcaagccaa	gtgttcacag	tgagaaaagc	aagagaataa	gctaatactc	ctgtcctgaa	240
caaggcagcg	gctccttggt	aaagctactc	cttgatcgat	cctttgcacc	ggattgttca	300
aagtggaccc	caggggagaa	gtcggagcaa	agaacttacc	accaagcagt	ccaagaggcc	360
cagaagcaaa	cctggagggtg	agacccaaag	aaagctggaa	ccatgctgac	tttgtacact	420
gtgaggacac	agagtctgtt	cctggaaaagc	ccagtgtcaa	cgcagatgag	gaagtcggag	480
gtccccaaat	ctgcccgtgta	tgtggggaca	agggccactgg	ctatcacttc	aatgtcatga	540
catgtgaagg	atgcaagggc	tttttcagga	gggccatgaa	acgcaacgcc	cggctgaggt	600
gcccccttccg	gaagggcgcc	tgcgagatca	cccgggaagac	ccggcgcacag	tgccaggcct	660
gccgcctgcg	caagtgcctg	gagagcggca	tgaagaagga	gatgatcatg	tccgacgagg	720
ccgtggagga	gaggcgggcc	ttgatcaagc	ggaagaaaag	tgaacggaca	gggactcagc	780
cactgggagt	gcaggggctg	acagaggagc	agcggatgat	gatcagggag	ctgatggacg	840
ctcagatgaa	aacctttgac	actaccttct	cccatattcaa	gaatttccgg	ctgccagggg	900
tgcttagcag	tggctgcgag	ttgccagagt	ctctgcaggc	cccatcgagg	gaagaagctg	960
ccaagtggag	ccaggtccgg	aaagatctgt	gctctttgaa	ggtctctctg	cagctgcggg	1020
gggaggatgg	cagtgtctgg	aactacaaac	ccccagccga	cagtggcggg	aaagagatct	1080
tctccctgct	gccccacatg	gctgacatgt	caaoctacat	gttcaaaggc	atcatcagct	1140
ttgccaaagt	catctcctac	ttcagggaact	tgcccatcga	ggaccagatc	tccctgctga	1200
agggggccgc	tttcgagctg	tgtcaactga	gattcaacac	agtgttcaac	gcggagactg	1260
gaacctggga	gtgtggccgg	ctgtcctact	gcttgggaaga	cactgcaggt	ggcttccage	1320
aacttctact	ggagcccatg	ctgaaattcc	actacatgct	gaagaagctg	cagctgcacg	1380
aggaggagta	tgtgtctgatg	caggccatct	ccctcttctc	cccagaccgc	ccaggtgtgc	1440
tgcagcaccg	cgtggtggac	cagctgcagg	agcaattcgc	cattactctg	aagtcttaca	1500
ttgaatgcaa	tcggccccag	cctgctcata	ggttcttgtt	cctgaagatc	atggctatgc	1560
tcaccgagct	ccgcagcatc	aatgctcagc	acaccacagc	gctgctgcgc	atccaggaca	1620

RECEIVED  
AUG 26 2002  
GROUP 3600

tacacccctt	tgctacgccc	ctcatgcagg	agttgttcgg	catcacaggt	agctgagcgg	1680
ctgcccttgg	gtgacacctc	cgagaggcag	ccagaccag	agccctctga	gccgccactc	1740
ccgggccaag	acagatggac	actgccaaga	gccgacaatg	ccctgctggc	ctgtctccct	1800
agggaattcc	tgctatgaca	gctggctagc	attcctcagg	aaggacatgg	gtgcccccca	1860
ccccagttc	agtctgtagg	gagtgaagcc	acagattcct	acgtggagag	tgactgacc	1920
tgtaggtcag	gaccatcaga	gaggcaaggt	tgccctttcc	ttttaaagg	ccctgtggtc	1980
tggggagaaa	tccctcagat	cccactaaag	tgtcaagggt	tgggaaggac	caagcgacca	2040
aggataggcc	atctggggtc	tatgcccaca	taccacagtt	tgttcgcttc	ctgagtcctt	2100
tcattgctac	ctctaatagt	cctgtctccc	acttcccact	cgttcccctc	ctcttccgag	2160
ctgctttgtg	ggctccaggc	ctgtactcat	cggcagggtgc	atgagtatct	gtgggagtc	2220
tctagagaga	tgagaagcca	ggaggcctgc	accaaagtgc	agaagcttgg	catgacctca	2280
ttccggccac	atcattctgt	gtctctgcat	ccatttgaac	acattattaa	gcaccgataa	2340
taggtagcct	gctgtggggg	atacagcatt	gactcagata	tagatcctga	gctcacagag	2400
tttatagtta	aaaaaacaaa	cagaaacaca	aacaatttgg	atcaaaaagga	gaaatgataa	2460
gtgacaaaag	cagcacaagg	aatttccctg	tgtggatgat	gagctgtgat	ggcgggcact	2520
gggtacccaa	gtgaaggttc	ccgaggacat	gagtcgttag	gagcaagggc	acaaactgca	2580
gctgtgagtg	cgtgtgtgtg	atgttggtgta	ggtagggtctg	tttgccactt	gatggggcct	2640
gggtttgttc	ctggggctgg	aatgctgggt	atgctctgtg	acaaggctac	gctgacaatc	2700
agttaaacac	accggagaag	aaccatttac	atgcacctta	tatttctgtg	tacacactca	2760
ttctcaaagc	taaagggtat	gaaagtgcct	gccttgttta	tagccacttg	tgagtaaaaa	2820
tttttttgca	ttttcacaaa	ttatacttta	tataaggcat	tccacaccta	agaactagtt	2880
ttgggaaatg	tagccctggg	tttaatgtca	aatcaaggca	aaaggaatta	aataatgtac	2940
ttttggctag	aggggtaaac	ttttttggcc	tatttctggg	gaaaataatg	tgggggtgtg	3000
ggaattcgaa	ttcgatatca	agcttatcga	taccgtcgac	ctcgaggggg	ggcccggtag	3060
ccaattcgcc	ctatagttag	tcgtattaca	att			3093

&lt;210&gt; 2

&lt;211&gt; 466

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (human)

&lt;400&gt; 2

Ser	Ile	Leu	Cys	Thr	Gly	Leu	Phe	Lys	Val	Asp	Pro	Arg	Gly	Glu	Val
1			5						10					15	
Gly	Ala	Lys	Asn	Leu	Pro	Pro	Ser	Ser	Pro	Arg	Gly	Pro	Glu	Ala	Asn
			20					25					30		
Leu	Glu	Val	Arg	Pro	Lys	Glu	Ser	Trp	Asn	His	Ala	Asp	Phe	Val	His
		35					40					45			
Cys	Glu	Asp	Thr	Glu	Ser	Val	Pro	Gly	Lys	Pro	Ser	Val	Asn	Ala	Asp
	50					55				60					
Glu	Glu	Val	Gly	Gly	Pro	Gln	Ile	Cys	Arg	Val	Cys	Gly	Asp	Lys	Ala
65					70				75					80	
Thr	Gly	Tyr	His	Phe	Asn	Val	Met	Thr	Cys	Glu	Gly	Cys	Lys	Gly	Phe
			85					90						95	
Phe	Arg	Arg	Ala	Met	Lys	Arg	Asn	Ala	Arg	Leu	Arg	Cys	Pro	Phe	Arg
			100					105					110		
Lys	Gly	Ala	Cys	Glu	Ile	Thr	Arg	Lys	Thr	Arg	Arg	Gln	Cys	Gln	Ala
		115					120					125			
Cys	Arg	Leu	Arg	Lys	Cys	Leu	Glu	Ser	Gly	Met	Lys	Lys	Glu	Met	Ile
	130					135				140					
Met	Ser	Asp	Glu	Ala	Val	Glu	Glu	Arg	Arg	Ala	Leu	Ile	Lys	Arg	Lys
145					150				155					160	
Lys	Ser	Glu	Arg	Thr	Gly	Thr	Gln	Pro	Leu	Gly	Val	Gln	Gly	Leu	Thr
			165					170						175	
Glu	Glu	Gln	Arg	Met	Met	Ile	Arg	Glu	Leu	Met	Asp	Ala	Gln	Met	Lys
			180					185					190		
Thr	Phe	Asp	Thr	Thr	Phe	Ser	His	Phe	Lys	Asn	Phe	Arg	Leu	Pro	Gly
		195				200						205			
Val	Leu	Ser	Ser	Gly	Cys	Glu	Leu	Pro	Glu	Ser	Leu	Gln	Ala	Pro	Ser
	210					215					220				
Arg	Glu	Glu	Ala	Ala	Lys	Trp	Ser	Gln	Val	Arg	Lys	Asp	Leu	Cys	Ser
225					230					235				240	

Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn  
 245 250 255  
 Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu  
 260 265 270  
 Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser  
 275 280 285  
 Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln  
 290 295 300  
 Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe  
 305 310 315 320  
 Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu  
 325 330 335  
 Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu  
 340 345 350  
 Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His  
 355 360 365  
 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp  
 370 375 380  
 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln  
 385 390 395 400  
 Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro  
 405 410 415  
 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu  
 420 425 430  
 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp  
 435 440 445  
 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr  
 450 455 460  
 Gly Ser  
 465

<210> 3  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 3  
 cttcaatgtc atgacatg

18

<210> 4  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 4  
 ccaaactctgc cgtgtatgtg

20

<210> 5  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 5

gtcagtgcac tctccacgt 19  
<210> 6  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Oligonucleotide  
<400> 6  
tgcagctggt ccaccacgcg 20  
<210> 7  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Oligonucleotide  
<400> 7  
gggtatgctc tgtgacaag 19  
<210> 8  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Oligonucleotide  
<400> 8  
aggcaggcac tttcatacc 19  
<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Oligonucleotide  
<400> 9  
tttcgagctt ccaggttcat 20  
<210> 10  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<220>  
<223> Oligonucleotide  
<400> 10  
ctcccaaact ctgcctggtg 20  
<210> 11  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 11  
cgggagccac acttcaccat 20

<210> 12  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 12  
gctcacttct gcgctgtctg 20

<210> 13  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 13  
ttccgggctc ccagagtcac 20

<210> 14  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 14  
cagaagacct gcctgatctg 20

<210> 15  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 15  
gaaatgaact ccttcatcat 20

<210> 16  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 16  
ccggatctgt ggggtgtgtg 20

<210> 17

<211> 2850  
 <212> DNA  
 <213> Homo sapien (human)

<400> 17  
 tccatcctaa tacgactcac tatagggctc gagcggccgc ccgggcaggt cttttggcct 60  
 gctgggttag tgctggcagc cccctgaggc caaggacagc agcatgacag tcaccaggac 120  
 tcaccacttc aaggagggggt ccctcagagc acctgccata cccctgcaca gtgctgcggc 180  
 tgagttggct tcaaaccatc caagaggccc agaagcaaac ctggagggtga gacccaaaga 240  
 aagctggaac catgctgact ttgtacactg tgaggacaca gagtctgttc ctggaaagcc 300  
 cagtgtcaac gcagatgagg aagtcggagg tccccaaatc tgccgtgtat gtggggacaa 360  
 ggccactggc tatcacttca atgtcatgac atgtgaagga tgcaagggtc ttttcaggag 420  
 ggccatgaaa cgcaacgccc ggctgagggt ccccttcagg aagggcgccct gcgagatcac 480  
 ccggaagacc cggcgacagt gccaggcctg ccgcctgcgc aagtgcctgg agagcggcat 540  
 gaagaaggag atgatcatgt ccgacgaggg cgtggaggag aggcgggcct tgatcaagcg 600  
 gaagaaaagt gaacggacag ggactcagcc actgggagtg caggggctga cagaggagca 660  
 gcggatgatg atcaggggagc tgatggacgc tcagatgaaa acctttgaca ctaccttctc 720  
 ccatttcaag aatttccggc tgccaggggt gcttagcagt ggctgcgagt tgccagagtc 780  
 tctcagggcc ccacgaggg aagaagctgc caagtggagc caggtccgga aagatctgtg 840  
 ctctttgaag gtctctctgc agctgcgggg ggaggatggc agtgtctgga actacaaacc 900  
 cccagccgac agtggcggga aagagatctt ctccctgtctg ccccatatgg ctgacatgtc 960  
 aacctacatg ttcaaaggca tcatcagctt tgccaaagtc atctcctact tcagggaactt 1020  
 gcccatcgag gaccagatct ccctgctgaa gggggccgct ttcgagctgt gtcaacttag 1080  
 attcaacaca gtgttcaacg cggagactgg aacctgggag tgtggccggc tgtcctactg 1140  
 cttggaagac actgcagggtg gcttccagca acttctactg gagcccatgc tgaatttcca 1200  
 ctacatgctg aagaagctgc agctgcatga ggaggagtat gtgctgatgc aggccatctc 1260  
 cctcttctcc ccagaccgcc caggtgtgct gcagaccgc gtgggtggacc agctgcagga 1320  
 gcaattcgcc attactctga agtcctacat tgaatgcaat cggccccagc ctgctcatag 1380  
 gttcttggct tgaagatca tggctatgct caccgagctc cgcagcatca atgtctagca 1440  
 caccagcgg ctgctgcgca tccaggacat acaccctttt gctacgcccc tcatgcagga 1500  
 gttgttcggc atcacaggta gctgagcggc tgcccttggg tgacacctcc gagaggcagc 1560  
 cagaccagga gccctctgag ccgccactcc cgggccaaaga cagatggaca ctgccaaagag 1620  
 ccgacaatgc cctgctggcc tgtctcccta ggggaattcct gctatgacag ctggctagca 1680  
 ttcctcagga aggacatggg tgccccccac cccagttca gtctgtaggg agtgaagcca 1740  
 cagattctta cgtggagagt gcactgacct gtaggtcagg accatcagag aggcaagggt 1800  
 gccctttcct tttaaaaggc cctgtggtct ggggagaaat ccctcagatc ccactaaagt 1860  
 gtcaagggtg ggaagggacc aagcgaccaa ggataggcca tctgggggtc atgccacat 1920  
 acccacgttt gttcgcttcc tgagtctttt cattgtacc tctaatagtc ctgtctccca 1980  
 cttcccactc gtcccctcc tcttccgagc tgctttgtgg gctccaggcc tgtactcatc 2040  
 ggcagggtgca tgagtatctg tgggagtcct ctagagagat gagaagccag gaggcctgca 2100  
 ccaaattgtc gaagcttggc atgacctcat tccggccaca tcattctgtg tctctgcatc 2160  
 catttgaaca cattattaag caccgataat aggtagcctg ctgtggggta tacagcattg 2220  
 actcagatat agatcctgag ctacacagat ttatagttaa aaaaacaaac agaaacacaa 2280  
 acaatttggg tcaaaaggag aaatgataag tgacaaaagc agcacaagga atttccctgt 2340  
 gtggatgctg agctgtgatg gcgggcactg ggtacccaag tgaaggttcc cgaggacatg 2400  
 agtctgtagg agcaagggca caaactgcag ctgtgagtgc gtgtgtgtga tttgggttag 2460  
 gtaggtctgt ttgccacttg atggggcctg ggtttgttcc tggggctgga atgctgggta 2520  
 tgctctgtga caaggctacg ctgacaatca gttaaacaca ccggagaaga accatttaca 2580  
 tgcaccttat atttctgtgt acacatctat tctcaaagct aaagggtatg aaagtgcctg 2640  
 ccttgtttat agccacttgt gagtaaaaat ttttttgcac tttcacaaat tatactttat 2700  
 ataaggcatt ccacacctaa gaactagttt tgggaaatgt agccctgggt ttaatgtcaa 2760  
 atcaaggcaa aaggaattaa ataatgtact tttggctaga ggggtaaact tttttggcct 2820  
 ttttctgggg aaaataatgt ggggggtgtg 2850

<210> 18  
 <211> 473  
 <212> PRT  
 <213> Homo sapien (human)

<400> 18  
 Met Thr Val Thr Arg Thr His His Phe Lys Glu Gly Ser Leu Arg Ala  
 1 5 10 15

Pro	Ala	Ile	Pro	Leu	His	Ser	Ala	Ala	Ala	Glu	Leu	Ala	Ser	Asn	His
			20					25					30		
Pro	Arg	Gly	Pro	Glu	Ala	Asn	Leu	Glu	Val	Arg	Pro	Lys	Glu	Ser	Trp
		35				40						45			
Asn	His	Ala	Asp	Phe	Val	His	Cys	Glu	Asp	Thr	Glu	Ser	Val	Pro	Gly
	50					55					60				
Lys	Pro	Ser	Val	Asn	Ala	Asp	Glu	Glu	Val	Gly	Gly	Pro	Gln	Ile	Cys
	65			70						75					80
Arg	Val	Cys	Gly	Asp	Lys	Ala	Thr	Gly	Tyr	His	Phe	Asn	Val	Met	Thr
				85					90					95	
Cys	Glu	Gly	Cys	Lys	Gly	Phe	Phe	Arg	Arg	Ala	Met	Lys	Arg	Asn	Ala
			100					105					110		
Arg	Leu	Arg	Cys	Pro	Phe	Arg	Lys	Gly	Ala	Cys	Glu	Ile	Thr	Arg	Lys
		115					120					125			
Thr	Arg	Arg	Gln	Cys	Gln	Ala	Cys	Arg	Leu	Arg	Lys	Cys	Leu	Glu	Ser
		130				135					140				
Gly	Met	Lys	Lys	Glu	Met	Ile	Met	Ser	Asp	Glu	Ala	Val	Glu	Glu	Arg
	145				150					155					160
Arg	Ala	Leu	Ile	Lys	Arg	Lys	Lys	Ser	Glu	Arg	Thr	Gly	Thr	Gln	Pro
				165					170					175	
Leu	Gly	Val	Gln	Gly	Leu	Thr	Glu	Glu	Gln	Arg	Met	Met	Ile	Arg	Glu
			180				185						190		
Leu	Met	Asp	Ala	Gln	Met	Lys	Thr	Phe	Asp	Thr	Thr	Phe	Ser	His	Phe
		195					200					205			
Lys	Asn	Phe	Arg	Leu	Pro	Gly	Val	Leu	Ser	Ser	Gly	Cys	Glu	Leu	Pro
		210				215					220				
Glu	Ser	Leu	Gln	Ala	Pro	Ser	Arg	Glu	Glu	Ala	Ala	Lys	Trp	Ser	Gln
		225			230					235					240
Val	Arg	Lys	Asp	Leu	Cys	Ser	Leu	Lys	Val	Ser	Leu	Gln	Leu	Arg	Gly
				245					250					255	
Glu	Asp	Gly	Ser	Val	Trp	Asn	Tyr	Lys	Pro	Pro	Ala	Asp	Ser	Gly	Gly
			260					265					270		
Lys	Glu	Ile	Phe	Ser	Leu	Leu	Pro	His	Met	Ala	Asp	Met	Ser	Thr	Tyr
		275					280					285			
Met	Phe	Lys	Gly	Ile	Ile	Ser	Phe	Ala	Lys	Val	Ile	Ser	Tyr	Phe	Arg
		290				295					300				
Asp	Leu	Pro	Ile	Glu	Asp	Gln	Ile	Ser	Leu	Leu	Lys	Gly	Ala	Ala	Phe
		305			310					315					320
Glu	Leu	Cys	Gln	Leu	Arg	Phe	Asn	Thr	Val	Phe	Asn	Ala	Glu	Thr	Gly
				325					330					335	
Thr	Trp	Glu	Cys	Gly	Arg	Leu	Ser	Tyr	Cys	Leu	Glu	Asp	Thr	Ala	Gly
			340					345					350		
Gly	Phe	Gln	Gln	Leu	Leu	Leu	Glu	Pro	Met	Leu	Lys	Phe	His	Tyr	Met
		355					360					365			
Leu	Lys	Lys	Leu	Gln	Leu	His	Glu	Glu	Tyr	Val	Leu	Gln	Met	Gln	Ala
		370				375				380					
Ile	Ser	Leu	Phe	Ser	Pro	Asp	Arg	Pro	Gly	Val	Leu	Gln	His	Arg	Val
					390					395					400
Val	Asp	Gln	Leu	Gln	Glu	Gln	Phe	Ala	Ile	Thr	Leu	Lys	Ser	Tyr	Ile
				405					410					415	
Glu	Cys	Asn	Arg	Pro	Gln	Pro	Ala	His	Arg	Phe	Leu	Phe	Leu	Lys	Ile
			420					425					430		
Met	Ala	Met	Leu	Thr	Glu	Leu	Arg	Ser	Ile	Asn	Ala	Gln	His	Thr	Gln
		435					440					445			
Arg	Leu	Leu	Arg	Ile	Gln	Asp	Ile	His	Pro	Phe	Ala	Thr	Pro	Leu	Met
		450				455					460				
Gln	Glu	Leu	Phe	Gly	Ile	Thr	Gly	Ser							
					470										

<210> 19  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 19

aagcccttgc atccttcaca

20

<210> 20

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 20

ccatcctaatac gactcact atagggc

27

<210> 21

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 21

gtaccgagct cggatccact a

21

<210> 22

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 22

ccgccagtgt gatggatatc t

21

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 23

ctcatctgcg ttgacactgg g

21

<210> 24

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 24

tgaactcaaa ggaggtca

18